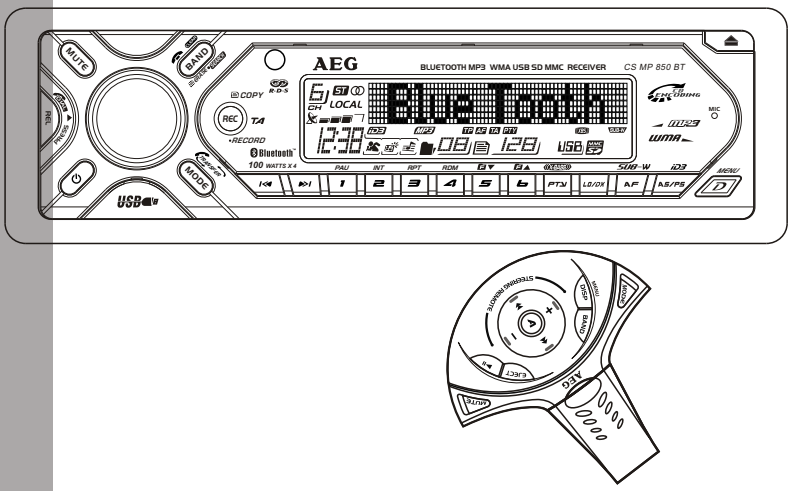
INSTRUCTION MANUAL

SUPPORT USB/ SD/ MMC INTERFACE
CAR CD/ MP3 / WMA PLAYER / RECEIVER

CS MP 850 BT



R·D·S

USB UNIVERSAL SERIAL BUS

SD MMC

CD ENCODING

Bluetooth™

E4 10 R - 02 0915

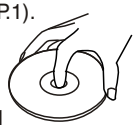
1. NOTE OF DISCS

MOISTURE CONDENSATION

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

NOTES ON CDs

1. A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows.
   Handle the disc by its edge. To keep the disc clean, do not touch the surface (P.1).



P. 1

2. Do not stick paper or tape on the disc (P.2).

P. 2

3. Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car (P.3).

P. 3

4. Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the centre out (P.4).

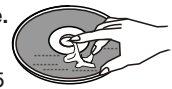
P. 4

5. Do not use solvents such as benzine, thinner,commercially available cleaners, or antistatic spray intended for analog discs.

NOTES ON DISCS

If you use the discs explained below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.
Do not use second-hand or rental CDs that have a sticky residue on the surface (for example, from peeled-off stickers or from ink, or glue leaking from under the stickers).

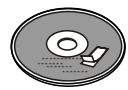
There are paste residue. Ink is sticky (P.5).



P. 5

Do not use rental CDs with old labels that are beginning to peel off.

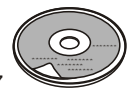
Stickers that are beginning to peel away, leaving a sticky residue (P.6).



P. 6

Do not use your CDs with labels or stickers attached.

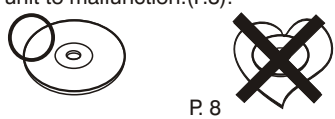
Labels are attached (P.7).



P. 7

Do Not Use Special Shape CDs

Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.(P.8).



P. 8

Be sure to use CDs with disc mark

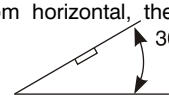
COMPACT disc DIGITAL AUDIO
COMPACT disc DIGITAL AUDIO RECORDABLE
COMPACT disc DIGITAL AUDIO REWRITABLE
COMPACT disc DIGITAL AUDIO TEXT

Only for this unit.

CD-Rs and CD-RWs which have not undergone finalization processing cannot be played. (For more information on finalization processing, refer to the manual for your CD-R/CD-RW writing software or CD-R/CD-RW recorder.) Additionally, depending on the recording status, it may prove impossible to play certain CDs record on CD-R or CD-RW.

2. INSTALLATION

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



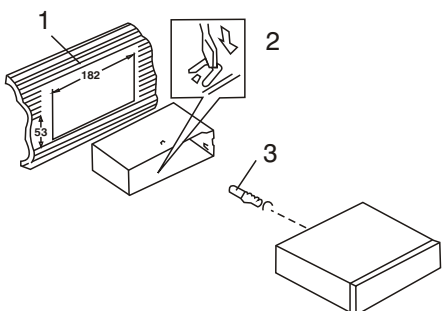
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
- Be sure to remove the front panel before installing the unit.

DIN FRONT/REAR-MOUNT

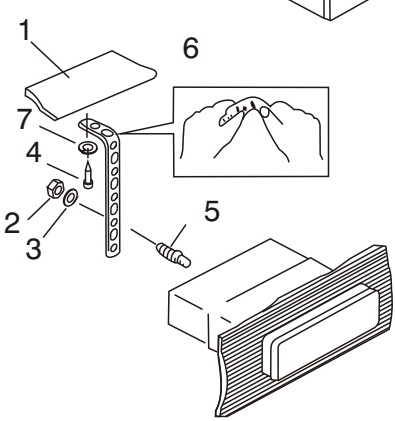
This unit can be property installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods A and B.

DIN FRONT-MOUNT (Method A)

Installation the unit

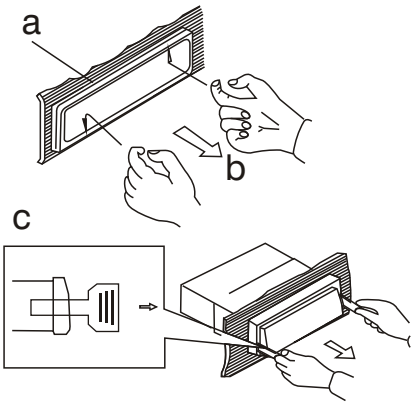


1. Dashboard
2. Holder
   After inserting the half sleeve into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in place.
3. Screw



1. Dashboard
2. Nut (5mm)
3. Spring washer
4. Screw (4x12mm)
5. Screw
6. Support Strap
   Be sure to use the support strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.
7. Plain washer

Removing the unit



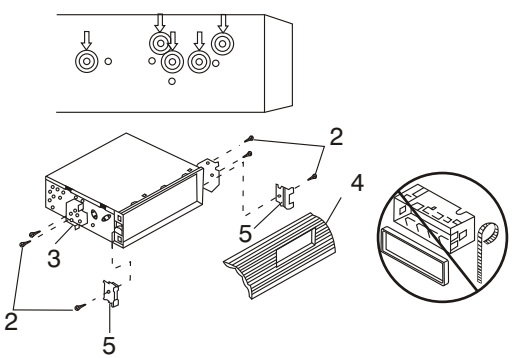
a. Frame
b. Insert fingers into the groove in the front of frame and pull out to remove the frame. (When re-attaching the frame, point the side with a groove down wards and attach it.)
c. Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.

Trim Plate Installation:

Push the trim plate against the chassis until it is fitted**.**
You must do this before you install the front panel, otherwise it can't be attached.

DIN REAR-MOUNT (METHOD B)

Installation using the screw holes on the sides of the unit.
Fastening the unit to the factory radio mounting bracket.

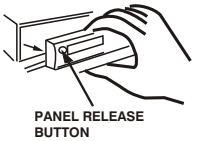


1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted) and tighten the screws at 2 places on each side.
2. Screw
3. Factory radio mounting bracket.
4. Dashboard or Console
5. Hook (Remove this part)

Note: the mounting box, outer trim ring, and half-sleeve are not used for method B installation.

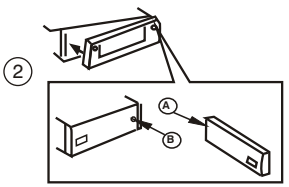
3. DETACHABLE CONTROL PANEL (D.C.P.)

Removing The Detachable Control Panel (D.C.P.).



1. Turn the power off
2. Press the D.C.P. release button
3. Remove the D.C.P.

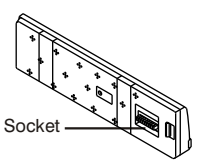
Attaching the DCP



1. Attach the panel at the right side first, with point B on the main unit touching point A on the D.C.P. (As shown on the diagram).
2. Then press the left side of D.C.P. onto the main unit until a “click” sound is heard.

CAUTION

- DO NOT insert the D.C.P from the left side. Doing so may damage it.
- The D.C.P can easily be damaged by shocks. After removing it, place it in a protective case and be careful not to drop it or subject it to strong shocks.
- When the release button is pressed and the D.C.P is unlocked, the car's vibrations may cause it to fall. To prevent damage to the D.C.P, always store it in a protective case after detaching it.
- The rear connector that connects the main unit and the D.C.P is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.

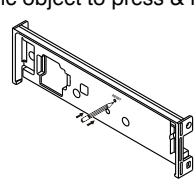


Note:

If the D.C.P is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the D.C.P.

RESETTING THE UNIT:

- After releasing the front panel, use a pencil or any non-metalic object to press & hold the reset button for five seconds to reset the unit.



4. WIRING DIAGRAM (20 PIN + ISO + SMALL CONNECTOR)

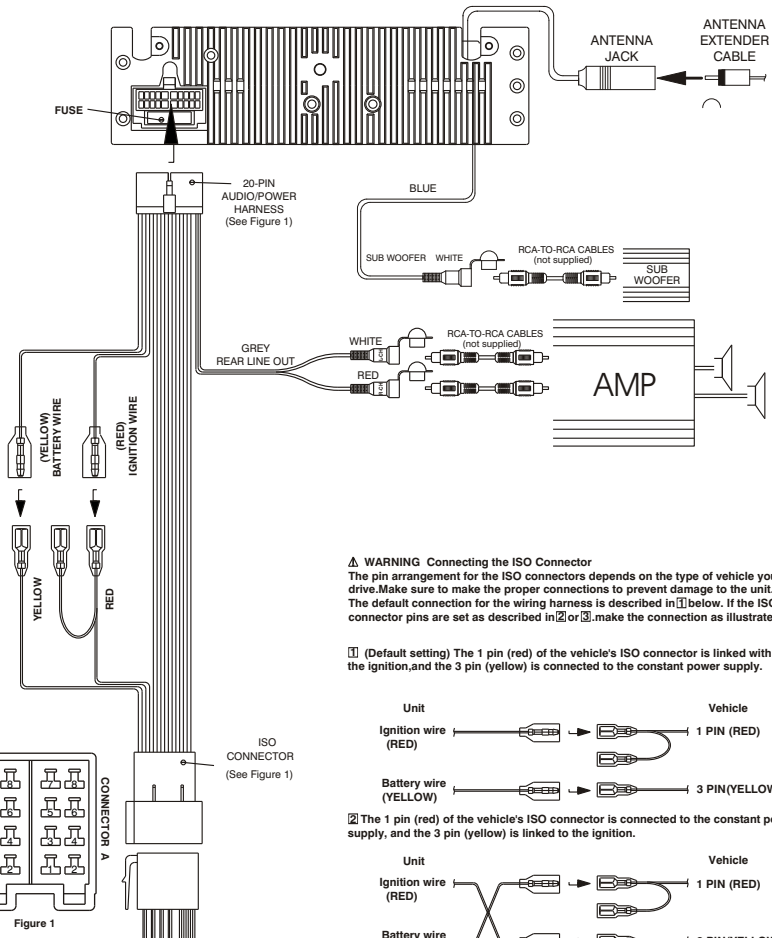


Figure 1

ISO CONNECTOR 4PIN+8PIN
FEMALE WITH MALE TERMINAL

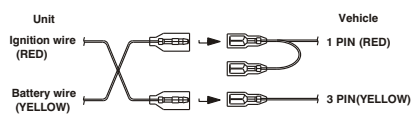
ISO CONNECTOR WIRING CHART

PIN	WIRE COLOR	FUNCTION/LABEL
A4	YELLOW	BATTERY(+)
A5	BLUE	POWER ANTENNA
A7	RED	IGNITION(ACC)
A8	BLACK	GROUND
B1	VIOLET	RIGHT REAR SPEAKER (+)
B2	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
B3	GREY	RIGHT FRONT SPEAKER (+)
B4	GREY/BLACK	RIGHT FRONT SPEAKER (-)
B5	WHITE	LEFT FRONT SPEAKER (+)
B6	WHITE/BLACK	LEFT FRONT SPEAKER (-)
B7	GREEN	LEFT REAR SPEAKER (+)
B8	GREEN/BLACK	LEFT REAR SPEAKER (-)

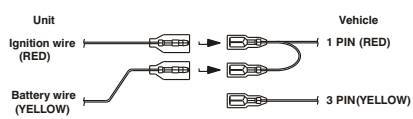
⚠ WARNING Connecting the ISO Connector
The pin arrangement for the ISO connectors depends on the type of vehicle you drive.Make sure to make the proper connections to prevent damage to the unit. The default connection for the wiring harness is described in 1 below. If the ISO connector pins are set as described in 2 or 3, make the connection as illustrated.

1 (Default setting) The 1 pin (red) of the vehicle's ISO connector is linked with the ignition,and the 3 pin (yellow) is connected to the constant power supply.

2 The 1 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the 3 pin (yellow) is linked to the ignition.



3 The 3 pin (yellow) of the vehicle's ISO connector is not connected to anything, while the 1 pin (red) is connected to the constant power supply (or both the 1(red) and 3(yellow)pins are connected to the constant power supply).



When the connection is made as in 3 above,the unit's power will not be linked to the ignition key. For that reason,always make sure to turn off the unit's power when the ignition is turned off.
To link the unit's power to the ignition,connect the ignition cable (ACC...red) to a power source that can be turned on and off with the ignition key.

5.PANEL OPEN/CLOSE OPERATION (MOTORIZED SLIDE DOWN VERSION)

This unit is equipped with the most advanced full logic motorized slide down system. You can enjoy this advance technology with just a single press of the “OPEN” button Please read carefully the following operation instruction before operating the unit.

OPEN / CLOSE THE PANEL:

Press the Open button to slide down (open) a closed panel or to slide up (close) an opened panel.

LOADING A CD

When the panel is in the slide down position, the disc slot becomes accessible.
Insert a CD through the disc slot, the CD will be automatically loaded and the panel will also close automatically & playback will begin.
If no CD is inserted, press Open button again to slide up(close) the panel.

EJECTING A CD

Press Open button to slide down the panel, if a CD is loaded, it will be ejected automatically. No further key press is needed.
If the ejected CD is not being removed, after 10 seconds it will be reloaded automatically. And the panel will automatically slide up after disc has been reloaded.

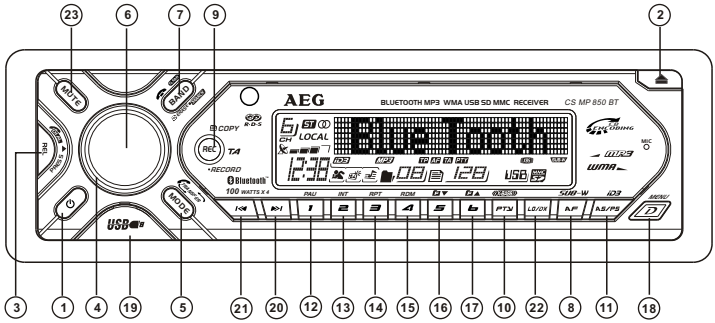
Warning : If the ejected disc remains in the slot, the Open button will not function, so closing the panel by using Open button is prevented unless the disc is removed or reloaded.

CAUTION:

A) Please always use the “OPEN” button to slide up/ down the front panel. **Please never try to slide up or down the front panel manually**, this will cause serious & permanent damage to the slide down mechanism, and this will void the warranty.

B) Please do not try to detach / remove the front panel (by pressing the detach button) or attach the front panel when the panel is in the slide down position. This may cause serious & permanent damage to the unit & panel. Only attach or detach the front panel when the panel is in the slide up position.

6. CONTROL PANEL FUNCTION



OPERATIONS:

KEY	SYSTEM		TUNER		CD/MP3/WMA		Blue Tooth	
	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press
1	Power							
2	Panel Open & Close				Eject			
3	Panel release button							
4		Audio Menu			Enter		Phone Answer•Dial	
5	Mode						Dial	Call Transfer
6	Encoder Volume							
7			Band		File/Folder Search	File Erase	Clear	
8		Sub-W	AF					
9		Record / Copy	TA					
10		ix-Bass	PTY					
11			PS	AS	ID3			
12			M1	Memory 1	Pause /Play			
13			M2	Memory 2	Intro	Folder Intro		
14			M3	Memory 3	Repeat	Folder Repeat		
15			M4	Memory 4	Random	Folder Random		
16			M5	Memory 5	Folder Down			
17			M6	Memory 6	Folder Up			
18	Display	Menu						
19	USB Cover / Socket							
20			Seek Up	Tune Up	Track/File Up	Fast Forward		
21			Seek Down	Tune Down	Track/File Down	Fast Backward		
22			LO/DX					
23	Mute							

7. BASIC OPERATIONS

3) PANEL RELEASE BUTTON (REL)

Press this button to remove the control panel.

1) POWER ON/OFF BUTTON (⏻)

Press POWER button or any other button on the front of the radio (except Open/Eject) to turn the unit on. Press POWER button again to turn the unit off.

23) MUTE BUTTON (MUTE)

Press the mute button momentarily to mute the audio volume, and "Mute" will flash in the display. Press the mute button again to restore volume to the previous setting.

8) SUB-WOOFER (SUB-W)

Long press the SUB-W button to activate the Sub-woofer function On, and “Sub-woofer” will appear on the LCD display for 3 seconds. press the SUB-W button again to turn off the Sub-woofer function.

NOTE Please refer to the related description in “Audio Operation of Sub-woofer” for details operation of the Sub-woofer control !

TIPS The Subwoofer Level and Low Pass Filter control will only appear in the Audio Menu only if the Subwoofer function is currently activated 'On”.

10) iX-BASS BUTTON (iX-Bass)

Long press the iX-Bass button to turn on the IX-Bass function, and “iX-Bass” will appear in the LCD display for 3 seconds. Press the iX-Bass button again to turn off the IX-Bass function

NOTE Please refer to the related description in “Audio Operation of iX-Bass” for details operation of iX-Bass control !

TIPS The IX-Bass Boost Level control will only appear in the Audio Menu only if the iX-Bass function is currently activated 'On”.

5) MODE BUTTON (MODE)

Press MODE button to select a different mode of operation as indicated on the display panel. Available modes include Tuner, CDP, USB Host, SD/MMC.

6) ENCODER VOLUME BUTTON

To increase the volume, rotate the volume control clockwise. To decrease the volume, rotate the volume control counter clockwise.When volume is adjusted, the volume level will be shown on the display panel as a number ranging from 0 (lowest) to 46 (highest).

18) DISPLAY (D)

Press DISPLAY/MENU momentarily to navigate through the following Display , and back to the default display. The selected display mode will appear in the LCD when the unit is turned on.

Default Display

EQ Animation

8.MENU OPERATION

18) MENU FUNCTION LIST (MENU)

Press DISPLAY/ MENU for more than 3 seconds to access the menu. MENU will appear in the display momentarily. Navigate the menu by pressing DISPLAY/ MENU momentarily to move forward to the next option. The menu can also be navigated by using the Tuning Up or Tuning Down Button to move to the next or previous option. Once the desired option appears in the display, adjust that option by rotating the volume control within 5 seconds. The following options are adjusted through this menu feature.

Paring

This feature is used to pairing the unit's Blue tooth system to your mobile phone or other Blue tooth device. Under the MENU “Pairing” mode then press Audio button to start activating the Pairing.

Tips Pls refer to BLUE TOOTH HAND FREE Operation regarding the details operation of “PAIRING”.

Re-connection/Dis-connection

This feature is allows to Re-connect or Dis-connect to the paired mobile phone or Blue tooth device by manually. Under the Menu- “RE-CONN”mode, Rotate the encoder to navigate thru “RE-CONN” (re-connection) and “DIS-CONN”(Dis-connection). After selected the mode for connection then press Audio button to start activating the connection mode.

Incoming call ringing volume (PHONE VOL)

The unit can preset the Ringing volume level for any incoming call. The default RINGING VOLUME LEVEL VALUE is “20”. Rotate the encoder knob to adjust from Min 00 to Max 38.

Auto Answer (A ANSWER)

The unit is default of “off' mode. If “On” is selected.. The unit is automatically answer any incoming call without pressing PHONE button if ON is selected..

Contrast

The contrast level of the display is set at "CONTRAST 05" by default. Rotate the volume control To adjust the contrast level from 00 to 10.

Clock Format

This option allows selection of a 12 hour or 24 hour clock format. "CLK FORMAT 12H" is the Default setting. Rotate the volume control to change to the 24 hour clock format.

Time Set

The time on the clock will be set to 12:00 as the default. Program the current time by rotating the volume control clockwise to adjust the minutes and counterclockwise to adjust the hours.

AREA (TUNER FREQUENCY SPACING)

This option allows the selection of the frequency spacing appropriate for your area. "Europe” is the default setting. Rotate the volume control to select the U.S.A. Latin America, Europe or Oirt options.

Regional On/Off (Region)

REGIONAL “OFF” will be displayed by default. The user now has 5 seconds to adjust by using volume up/down button from “off” to “On” . If “on” is selected when the AF search or PI seek, it will implement to station which have all the PI codes which are the same as current station.. If “off” is selected, when AF search or PI seek the regional code in the format PI code will be ignored. A regional station is possible to be received.

NOTE The Regional function On/Off Setting is valid when the “AF” function is “on”

Programmable Turn-on Volume (VOL PGM)

This option allows selection of the volume level the radio will automatically assume when first turned on. "VOL PGM 12 " is the default setting, which will turn the radio on at the volume level selected when the unit was last turned off.

To program a specific volume level for the radio to turn on at, rotate the volume controlto select "VOLUME LEVEL”. Within 5 seconds.

Beep Tone

The beep tone feature allows the selection of an audible beep tone to be heard each time a button is pressed on the face of the radio. "BEEP TONE On" is the default display. Rotate the volume control to select the "BEEP TONE Off" option.

9. AUDIO OPERATION

Audio Menu

Long Press "AUDIO" button to access the Audio Menu. User can navigate thru the Audio Menu items by pressing the "AUDIO" button repeatedly, or by pressing the Tuning Up or Tuning Down Button. Once the desired menu item appears on the display, adjust that option by using the Volume Up or Down button within 5 seconds. The following menu items can be adjusted as described above. The unit will automatically exit the Audio Menu after five seconds of inactivity.

VOLUME (Volume Level)

- Use have 5 seconds to use the Volume button to adjust the desire volume level, the volume level will be shown on the LCD display as a number ranging from 00 (lowest) to 46

SUBWOOFER (Sub-woofer Level)

- User has 5 seconds to use the Volume Knob to adjust the Sub-woofer lever from '00' to '12'.

NOTE The Sub-woofer level control is only applicable if the unit is equipped with the optional sub-woofer line out, and only if connected to an optional sub-woofer speaker.

NOTE The Sub-woofer level control option will only appear in the Audio Menu if the "Sub-woofer" function is activated "ON" by pressing the "Sub-w" button on control panel.

SUB-W LPF (Sub-woofer Low Pass Filter)

- User has 5 seconds to use the Volume Up or Down button to select the 3 different Low Pass filter to Flat, 80Hz, 120Hz or 160Hz.

NOTE The Sub-woofer LPF control is only applicable if the unit is equipped with the optional sub-woofer line out, and only if connected to an optional sub-woofer speaker.

NOTE The Sub-woofer LPF option will only appear in the Audio Menu if the "Sub-woofer" function is activated by pressing the "Sub-w" button on control panel.

iX-BASS (iX-Bass Level)

- User have 5 seconds to use the Volume Knob to select the 3 different Bass Boost level: Low, Mid, or High.

NOTE The iX-Bass option will only appear in the Audio Menu if the "iX-Bass" feature is currently activated "ON" by pressing the "iX-Bass" button on control panel.

BASS (Bass Level)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Bass level range from -6 to +6.

BASS -CFQ (Bass Center Frequency).

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Bass Center Frequency to 60Hz, 80Hz, 100Hz, or 200Hz.

BASS-Q: (Bass Quality Factor)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Bass Quality Factor to 2N, 1N, 1W or 2W.

Figure 1 shows the Bass Quality factor (Curve characteristics) of each step.

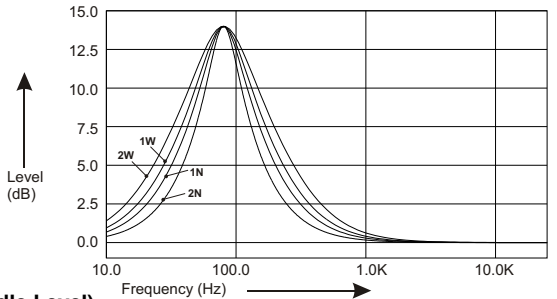


Figure 1

MIDDLE (Middle Level)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Middle level range from -6 to +6.

MID-CFQ (Middle Center Frequency)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Middle Range Center Frequency to 500Hz, 1KHz, 1.5KHz, or 2.5KHz.

MIDDLE-Q (Middle Quality Factor)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Middle Quality Factor to 2N, 1N, 1W or 2W.

Figure 2 shows the middle Quality factor (Curve characteristics) of each step.

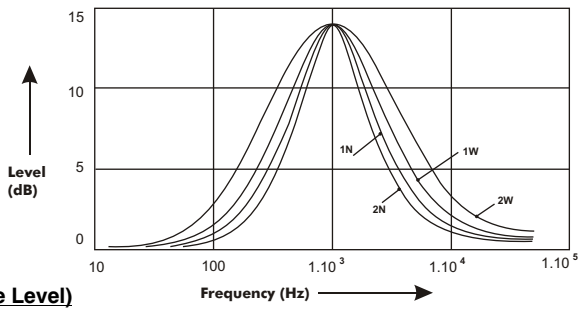


Figure 2

TREBLE (Treble Level)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Treble level range from -6 to +6.

TRE-CFQ (Treble Center Frequency)

- User has 5 seconds to use the Volume Up or Down button to adjust the desired Treble center frequency to 10KHz, 12.5KHz, 15KHz, or 17.5KHz.

BALANCE

- User has 5 seconds to use the Volume Up or Down button to adjust the Balance between the right and left speakers from R12 (full right) to L12 (full left). “C00” represents an equal balance between the right and left speakers.

FADER

- User has 5 seconds to use Volume Up or Down button to adjust the Fader between the front and rear speakers from R12 (full rear) to F12 (full front). “C00” represents an equal balance between the front and rear speakers.

10. TUNER OPERATION

7) BAND BUTTON (BAND/SEARCH)

Press BAND to change between FM bands.

20-21) TUNING UP/DOWN BUTTON (⏮ ⏭)

Manual Tuning

Press the Up Tuning or Down Tuning button for more than 3 seconds to move the radio frequency number up or down one step.

Auto Seek Tuning

Press the Up Tuning or Down Tuning button for less than 3 seconds to move to next station automatically.

12-17) PRESET STATIONS BUTTONS

Six numbered preset buttons store and recall stations for each band.

Store a Station

Select a band (if needed), then select a station. Hold a preset button for 3 seconds. The preset number will appear in the display.

Recall a Station

Select a band (if needed). Press a preset button to select the corresponding stored station.

11) AUTOMATICALLY STORE / PRESET SCAN (AS/PS)

Automatically Store

Automatically select 6 strong stations and store them in the current band. Select a band (if needed). Press AS/PS button for more than three seconds. The new stations replace stations already stored in that band.

Preset Scan

Scan stations stored in the current band. Select a band (if needed). Press AS/PS button for less than 3 seconds. The unit will pause for ten seconds at each preset station. Press AS/PS button again to stop scanning when the desired station is reached.

STEREO

The unit will automatically pick up a stereo signal, when available. When in stereo mode, the ST icon appears in the display. When no stereo signal is available, the unit will automatically revert to mono operation, and no icon will be displayed.

22) LOCAL / DISTANCE SELECTOR

Short press the LO/DX button to select between Local or Distant model. This feature is used to designate the strength of the signals at which the radio will stop during automatic tuning. "Distance" is the default, allowing the radio to stop at a broader range of signals. To set the unit to select only strong local stations during automatic tuning, press this button until "Local" appears in the display.

11. RDS OPERATION

RDS functions

The unit is equipped with the following RDS function:

- AF Alternative Frequencies
- CT Clock Time
- EON Enchanced other Network
- PI Program identifications
- PS Program service name
- PTY Program Type
- REG Regional Change
- TA Traffic Announcement
- TP Traffic program

1. AF Function

By pressing AF button < 3 seconds to select AF ON/OFF. “AF ON” or “AF OFF” will show & remain on the LCD segment for 5 seconds.. Under AF “On” mode, if the tuned in station signal is getting weak, the unit will automatically switches to a different frequency on the same network with stronger signal.

Note: Factory Default setting is “AF ON”

2. TA Function

By pressing TA button < 3 seconds, turn switch on TA standby mode. “TA ON” will show & remain on the LCD segment for 5 seconds & the TA icon will light up on the LCD. In the stand by mode, when a traffic announcement broadcast starts, the traffic announcement broadcast will be received as top priority regardless of the function mode. When a traffic announcement starts, “TRAFFIC INFO” will show on the LCD, press the TA button can cancelled the broadcast reception while a traffic announcement broadcast is being received. The unit will go back to the previous mode and TA goes into stand by mode again. When the TP icon is not light up for 60 seconds. A beep Alarm tone is heard and the LCD will show “Lost TP, TA”. TA seek will automatic activate and searches to another TA station.

3. PTY Function

Pressing PTY button < 3 seconds to goes into PTY select mode. “PTY” icon will light up on the LCD. The LED around encoder volume will starts blinking. The user now has 5 seconds to select the desired PTY item by using volume up/down button. Once selected the PTY item, user have 5 seconds to press “SELECT” or “TUNE UP or TUNE DOWN” buttons < 3 seconds to seek for the selected PTY item. The LCD will display “PTY SEEK”. If no station with the selected PTY broadcast can be received, the LCD will display “No Match PTY” and blinks for 5 seconds then returns to the previous mode.

User can store his favor PTY into the preset memory M1 to M6. After selected a PTY item, long press any one of the preset memory button can store the selected PTY. To recall the stored PTY item by switching on PTY mode then press preset memory < 3 seconds, the unit will automatically search the stored PTY station in the preset memory

Music Group	Speech Group
POP , ROCK	NEWS, AFFAIRS, INFO
EASY, LIGHT	SPORT, EDUCATE, DRAMA
CLASSICS, OTHER	CULTURE, SCIENCE, VARIED
JAZZ, COUNTRY	WEATHER,FINANCE, CHILDREN
NATION, OLDIES	SOCIAL, RELIGION, PHONE IN
FOLK	TRAVEL, LEISURE, DOCUMENT

Note: Factory default stored for PTY preset memory.

M1/News, M2/Information, M3/Pop Music, M4/Sports, M5/Classics, M6/Finance.

12. CD /MP3/WMA OPERATION

INSERT AND EJECT CD

Insert a CD label-side up with the unit turned on, and the disc will begin to play. Press the Eject button to stop CD play and eject the CD. The unit does not have to be turned on to eject the CD.

CD-DA OPERATION

12) PAUSE BUTTON

Press the pause button to suspend disc play. Press the pause button again to resume disc Play.

20-21) TRACK SELECT

Press the Up Tuning or Down Tuning button (⏮ ⏭) for less than one second to advance to the next track on the CD, The selected track number will appear on the display. Press and hold the Up Tuning or Down Tuning button (⏮ ⏭) for more than one second to fast forward or fast reverse through the disc. CD play starts when the button is released.

14) REPEAT BUTTON (RPT)

Press REPEAT BUTTON (RPT) during disc play to continuously repeat the track. Press REPEAT BUTTON (RPT) again to stop Repeating.

15) RANDOM BUTTON (RDM)

Press RANDOM BUTTON (RDM) during disc play to play all tracks on a CD in random, shuffled order. Press RANDOM BUTTON (RDM) again to stop random play.

13) INTRO SCAN BUTTON (INT)

During disc play, press INTRO SCAN BUTTON (INT) to play the first 10 seconds to each track on the disc. When the desired track is reached, press INTRO SCAN BUTTON (INT) again to end the scan and play the selected track.

MP3/WMA OPERATION

MP3 and WMA (Windows Media Audio) music files are audio compression format. This unit can play MP3/WMA directly from files contained on a CD-R/RW, USB Memory Stick, SD or MMC Memory Card.

Notes on MP3/WMA Play

This unit can play MP3 (MPEG1, 2, 2.5 Audio Layer 3). However, the MP3 recording media and accepted formats are limited. When writing MP3/WMA, pay attention to the following restrictions.

Acceptable Medium Formats

The following formats are available for the media used in this unit. The maximum number of characters used for file name including the delimiter (".") and three-character extension are indicated in parentheses.

- ISO 9660 Level 1 (11 characters)
- ISO 9660 Level 2 (31 characters)
- Joliet (31 characters)
- Romeo (31 characters)

Up to 200 characters can be displayed in the long file name format. For a list of available characters, see the instruction manual of the writing software and the section “Entering File and Folder Names” below. The media reproducible on this unit has the following limitations:

- Maximum number of nested folders: 8
- Maximum number of files per disc: 999
- Maximum number of files per media device: 2000
- Maximum number of folders per disc: 255

MP3/WMA written in the formats other than the above may not be successfully played and their file names or folder names may not be properly displayed.

MP3/WMA Encoder and CD Writer Settings

Use the following settings when compressing audio data in MP3 data with the MP3 encoder.

- Transfer bit rate : 32- 320 kbps
- Sampling frequency : 32,44.1,48 kHz(WMA) 16,22.05,24,32,44.1, 48kHz (MP3)

When using a CD writer to record MP3/WMA up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to the maximum capacity at once, check disc at once.

Entering ID3 Tag

This unit supports ID3 tag versions 1.0 and 1.1.
The unit also supports CD-TEXT encoded discs for Album, Track and Artist Title information.

Entering File and Folder Names

Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly. The unit recognizes and plays only files with the MP3/WMA extension.

NOTE ***A file name entered with characters not on the code list may not play correctly.***

Writing Files into a Media

When a media containing MP3/WMA data is loaded, the unit checks all data. If the media contains many folders or non-MP3/WMA files, MP3/WMA play will be delayed, it may take time for the unit to move to the next file, and searches may not be performed smoothly. Loading such a media may produce loud noise and cause damage to the speakers. ***Do not attempt to play a media containing a non-MP3/WMA file with the MP3/WMA extension or a media containing non MP3/WMA files.***

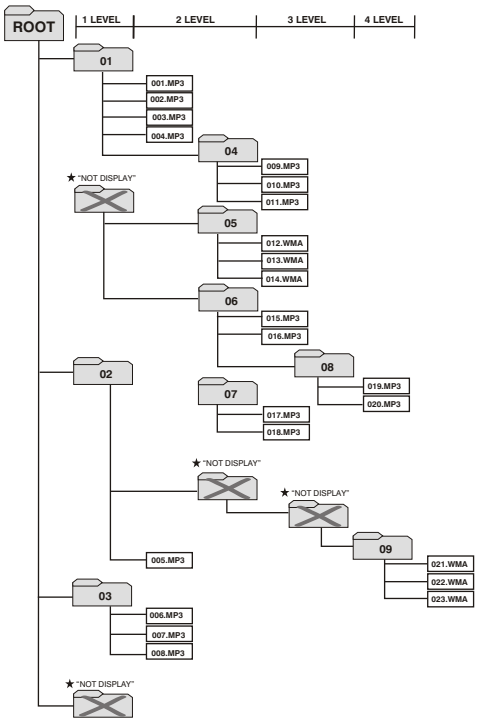
Bit Rates

The unit supports bit rates from 32 - 320 kbps.

Files Playing Order

When selected for play, Folder Search, File Search or Folder Select, files and folders are accessed in the order in which they were written by the PC writer. Because of this, the order in which they are expected to be played may not match the order in which they are actually played. For example, a media with the following folder/file hierarchy is subject to Folder Search, File Search or Folder Select as shown below.

- An outline of a Media with MP3/WMA is shown below. Subfolders are shown as folders in the folder currently selected.



- The equipment assigns folder numbers. The user can not assign folder numbers.

★ ● It is not possible to check folders that do not include MP3/WMA files. (These folders will be skipped without displaying the folder number and name)

FILE/FOLDER PLAY

There are three different play methods as following:

File/Folder Intro play:

- Press M2 button more than 3 seconds during playing MP3/WMA disc for “intro play” all files of the current folder. Intro play should restart from the first song of the current folder, after all files in the current files have been intro-played.
  To disable current folder “intro play”, long press M2 button more than 3 seconds

- Press M2 button less than 3 seconds is “intro play” all files on the disc. Intro play should re-start at the very first file of the disc after all files in the disc has been intro played.
  To disable all files “intro play”, press M2 button less than 3 seconds

File/Folder Repeat play :

- Press M3 button more than 3 seconds during playing MP3/WMA disc for “repeat play” all files of the current folder. And keep on repeat playing the current folder until “repeat play” is disabled.
  To disable current folder “repeat play”, long press M3 button more than 3 seconds
- Press M3 button less than 3 seconds to “repeat play” the current file. And keep on repeat Playing the current file until the “repeat play” is disabled.
  To disable current file “repeat play”, press M3 button less than 3 seconds

File/Folder Random play:

- Press M4 button more than 3 seconds during playing MP3/WMA disc to “random play” all files of the current folder.
  To disable current folder “random play”, long press M4 button more than 3 seconds
- Press M4 button less than 3 seconds is “random play” all files on the disc.
  To disable all file “ random play”, press M4 button less than 3 seconds.

Folder Up / Down Play

- Press M5 button less than 3 seconds to One Folder Down
- Press M6 button less than 3 seconds to One Folder Up

MP3/WMA File or Folder Search

Direct File Number Searching

Press BAND button. The LCD will display "Number", and the illumination around the select knob will blink. Rotate the knob to select the desired track number, then press in on the knob to confirm and play the selected file.

Folder / Files Navigate Searching

Press BAND button twice. The LCD will display "Navigate", and the illumination around the select knob will blink. Rotate the knob to navigate through all folders and sub-folders on the disc. The folder names will be displayed on the LCD. Press the select knob for more than three seconds to play the first file in the folder. Press the select knob for less than three seconds to access the sub-folders or files. Rotate the select knob to navigate, then press the select knob to confirm and begin file play. During navigation search, press AS/PS or rotate the select knob counter-clockwise to move back to the last upper level of a folder.

ID3 INFORMATION DISPLAY

If any MP3/WMA file recording with ID3 Tag information. The ID3 information such like Album title, Track title, Artist Title will be displayed and automatic scrolling through the LCD while the file is playing. User also allows pressing the AS/PS button repeatedly to view the ID3 tag information manually.

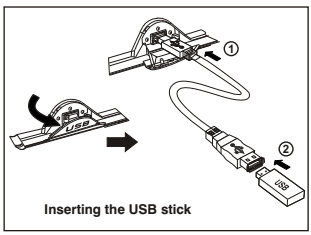
NOTE OF ID3 ICONS ON DISPLAY

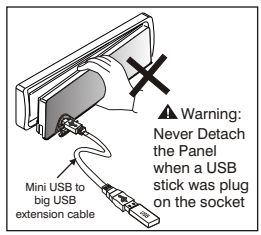
ICON	DESCRIPTION
	FOLDER ICON
	FILE ICON
	TRACK ICON
	ARTIST ICON
	ALBUM ICON

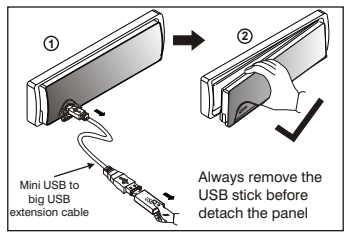
13. USB OPERATION

The unit can support USB Host Function. It can playback MP3 and WMA Audio format which are stored into USB Memory Stick or USB interface Music Player. Pls read below before you start the operation of USB HOST Function.

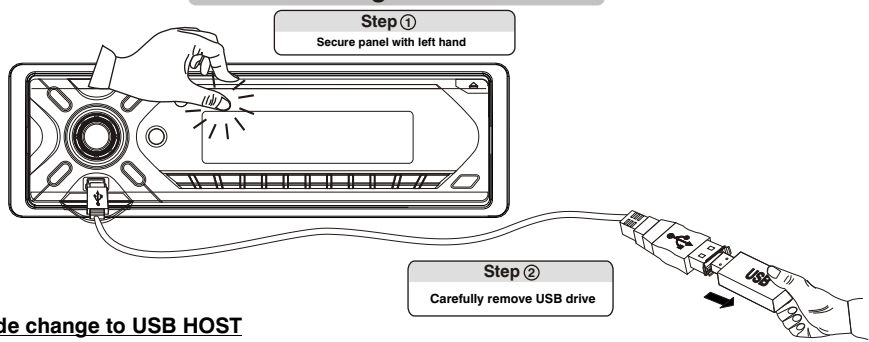
Inserting and Removing USB Drive







Removing USB Drive



Mode change to USB HOST

Under any other mode while inserting a USB Stick into the front panel USB plug, the unit will Automatically switches from present playing mode to USB HOST mode. The unit will display ' USB HOST for a while then starts Reading the files contained on the USB Stick. Once the unit read the USB Stick successfully, the first audio music file on the USB stick Playback will Automatically start. Press Mode button repeatedly to change to other modes or switch back to USB HOST.

⚠WARNING:

Before remove the USB stick from the Front panel USB plug. Always remember to switch off the unit's power or switch to other mode then remove out the USB Stick. Never try removing the USB Stick while playing music file on the USB stick. It may damage the USB Stick and sometimes will caused the unit system lock up.

NOTE The unit can support playback Music Player which have USB Interface. However due to the fast changing decoder technology and different kind of hardware interface. This unit may or may not be compatible to all the Music Player and USB Stick especially those USB Stick / Player which require to install a program driver.

NOTE About Music Flash Player with USB Interface, Usually, the unit takes longer time to read this kind of player than normal USB Stick. Especially, if the Flash Player with built-in power battery sometimes takes 20-30 seconds to start up the playback

NOTE The unit is not compatible to playing any Portable Hard disk.

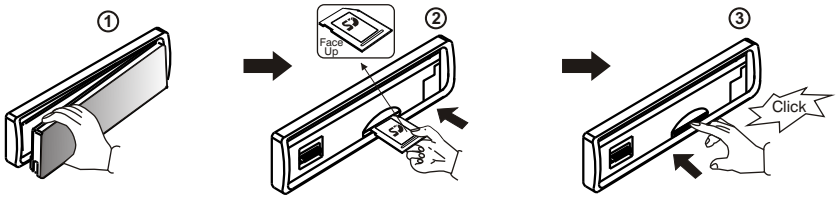
Music File Playback Operation

All the USB playback operation function is same as the operation on CD/MP3/WMA. Pls refer to 'CD/MP3/WMA Operation' for more details.

14. MEMORY CARD OPERATION

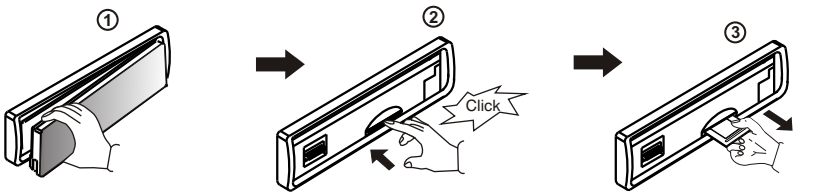
The unit can support playback MP3 and WMA Audio format which are stored into **SD** and **MMC** Memory Card . Pls read below before you start the operation of Memory Card

Inserting and Removing a SD or MMC card on the main unit



Detach the Front Panel | Insert the Memory Card with Label up side | Push in till heard a “click”

Inserting the SD or MMC card



Detach the Front Panel | Push in till heard a “click” | Remove the Memory Card

Removing the SD or MMC card

Mode change to MEMORY CARD

After a SD or MMC card was inserted into the main unit card slot. Press Mode button to select SD/MMC mode .The unit will display SD/MMC for a while then starts Reading The files contained on the Memory Card. Once the unit read the MEMORY CARD successfully, the first audio music file on the Memory Card will automatically start playback.

Press Mode button repeatedly is allowing changing to other modes or switch back to SD/MMC mode.

NOTE If no any Memory Card is inserted into the main unit card slot. Press mode button will automatically skip SD/MMC mode.

Music File Playback Operation

All the SD or MMC Memory Card playback operation function is same as the operation on CD/MP3/WMA. Pls refer to 'CD/MP3/WMA Operation' for more details.

15. RECORDING OPERATION

This unit allows user to RECORD his favor Music and Audio. You can store your favor Music and Audio to the USB Stick, as well as Memory Card. Please read below for the details operation of the RECORD function.

RECORDABLE MEDIA

The following audio sources modes are available for record on this unit.

- CDP : Recording CD Music

STORAGE DEVICES FOR RECORD

The following media can be used for storage of the music or audio files on this unit :

- Removable USB Stick
- SD Memory Card
- MMC Memory Card

RECORDING CD MUSIC

This operation only can be performed when the unit is in the CD PLAYING Mode.

1. Playback a track to be recorded, then long press button COPY / RECORD on the front panel to activate the RECORD mode .
2. The LCD will display Rec ↳ USB as default, Rotate the encoder volume knob to navigate thru Rec ↳ USB > Rec ↳ CARD > for selection of the storage media.
3. Once selected the storage media, Press AUDIO button as confirmation to start the record to the selected media. If no further button is press within a 10 second time out, the unit will automatically resume to the previous mode.
4. If unit detect the selected media memory capacity is used up, Memory Full will be displayed on the LCD for a while then automatically resume to previous mode. (The following step in an example of if selected USB).
5. After pressing AUDIO button to start the record , the unit will re-start playback from the beginning of the track and the recording will start at the same time.
6. Under RECORD processing, the LCD will displayed Rec USB following with the elapsed time.
7. When the recording is completed, the LCD will displayed Rec ↳ USB for a while and automatically playback the next music track on the CD disc. The recorded music is automatically saved as a file into the Folder , “MY_CD” by the advance “File Management.” system of this unit .

Tips For more details information of File Management system of this unit. Pls see “FILE MANAGER”.

NOTE 1) Under recording mode, All the CD operation is not functional, like Track up / down, Repeat, Random, Intro etc.

2) The Audio will remain recording mode by the unit system even MUTE function is activated.

3) The Recording will automatically stop if the storage device memory is full.

- **To Cancel Recording**

1.Long press button COPY / RECORD again to cancel the recording. The LCD will display Rec ■ USB . The track that has been recorded incompletely will be deleted.

NOTE The unit will cancel the Recording automatically under the following operation, The track that has been recorded incompletely will be deleted.

1)Switch the power to off mode

2)Mode change

3)Inserting a CD Disc

4)Inserting a USB Stick

5)Detach the Front Panel from the main unit

⚠WARNING:

1) Never remove the USB Stick while recording to USB Stick. It may damage the USB Stick and sometimes will caused the unit system lock up.
2) This is not recommend to insert USB stick while recording is under progress to other storage device. Always remember to stop the record or after the record is completed, then insert the USB stick.
3) Do not switching mode of the unit during the Recording
4) Do not turn off the Power of the unit during the Recording
5) Do not switch the ignition key off during the Recording

16. MUSIC FILES TRANSFERRING

Thanks for the most useful and convenient files transferring function of this unit, user can easily transfer music files between USB Stick, SD or MMC Memory card and on the CD Disc. Please read below for the details operation of this function:

TRANSFERABLE MEDIA

Files are transferable within the following media:

- Removable USB Stick
- SD Memory Card
- MMC Memory Card

MUSIC FORMAT SUPPORTED BY FILE TRANSFER ARE

- MP3 and WMA

TRANSFER MP3 OR WMA MUSIC FILES ON CD DISC

This operation only can be performed during disc playing a MP3 or WMA music file.

1.Playback a music file to be transferred and then long press the COPY / RECORD button to activate the Transfer mode.

2.The LCD will display USB as default, Rotate the encoder volume knob to navigate thru USB > CARD > for selection of the storage media.

3. Once selected the storage media, Press AUDIO button as confirmation to transfer the Playing file. If no further button is press within a 10 second time out, the unit will automatically resume to the previous mode

4.If the unit detected the selected media memory capacity is used up, Memory Full Will be displayed on the LCD for a while then automatically resume to the previous mode.

5.After pressing AUDIO button to start the transfer, the playing music file will stop and the transferring will start at the same time. (The following step is an example of if selected USB)

6.When the transfer is processing, the LCD will displayed 10 % USB .

7.When the file transfer is completed, the LCD will display 100% USB for a while and automatically playback the present music file which have been transferred. The transferred music file is automatically saved as a file into Folder “MY_MP3” or “ MY_WMA” by the advance “File Management.” system of this unit.

Tips For more details information of File Management system of this unit. Pls see “FILE MANAGER’’.

NOTE Under transferring mode, All the MP3/WMA operation is not functional, like file up / down, Repeat, Random, and Intro etc.

NOTE The audio will remain recording by the unit system even MUTE function is activated

NOTE The Transferring will automatically stop if the storage device memory is **less than 2MB**

- **To Cancel Transferring.**

1.Long press button COPY / RECORD again to cancel the recording. The LCD will display USB The music file that has been transferred incompletely will be deleted.

NOTE The unit will stop the file transfer automatically under the following operation, the music file that has been transferred incompletely will be deleted.

1)Switch the power to off mode

2)Mode change

3)Inserting a CD Disc

4)Inserting a USB Stick

5)Detach the Front Panel from the main unit

TRANSFER MP3 OR WMA MUSIC FILES BETWEEN MEDIA DEVICES

Select a device by mode button and playback the music file need to be transfer:

1.Long press the COPY / RECORD button to activate the transfer mode.

2.The LCD will display USB as default, Rotate the encoder volume knob to navigate thru USB > CARD >for selection of the storage media.

3.Once selected the storage media, Press the AUDIO button as confirmation to transfer the Playing file. If no further button is press within a 10 second time out, the unit will automatically resume to the previous mode.

4.If the unit detect the selected media memory capacity is used up, Memory Full will be displayed on the LCD for a while then automatically resume to the previous mode.

5.After pressing AUDIO button to start the transfer, the playing music file will stop and the transferring will start at the same time. (The following step is an example of if selected USB)

6.Under transfer is processing, the LCD will display 10 % USB

7.When the file transfer is completed, the LCD will display 100% USB for a while and automatically playback the present music file which have been transferred. The transferred Music file is automatically saved as a file into the Folder “MY_MP3 “ or “MY_WMA” by the advance “File Management.” system of this unit.

Tips For more details information of File Management system of this unit , Please see “FILE MANAGER’’.

NOTE Under transferring mode, All the MP3/WMA operation is not functional, like file up / down, Repeat, Random, and Intro etc.

NOTE The audio will remain recording by the unit system even MUTE function is activated

NOTE The Transferring will automatically stop if the storage device memory is **less than 2MB**

⚠ WARNING:

1) Never remove the USB Stick while recording or file transferring to USB Stick. It may damage the USB Stick and sometimes will caused the unit system lock up.
2) It is not recommended to insert USB stick while recording is under progress to other storage device. Always remember to stop the recording or after the recording is completed, then insert the USB stick.
3) Do not switching mode of the unit during the File Transferring .
4) Do not turn off the Power of the unit during the File Transferring.
5) Do not switch the ignition key off during the File Transferring

17. MUSIC FILES ERASING

You can erase files from the USB Stick or Memory Card Please read below for the details operation of this function:

ERASABLE MEDIA

- USB Stick and Memory Card .

  NOTE Music files which are on the CD Disc is NOT ERASABLE By this unit.

ERASING MUSIC FILES ON THE MEDIA

There are THREE different methods for erasing files;

1.Erase while the Music File is playing.

- Long press BAND button to activate the ERASE mode
- The LCD will display ERASE 010
- Short Press the AUDIO to enter into the ERASE mode.
- Once enter into the erase mode. You can rotate the encoder volume knob to select " " as to confirm the erase or rotate the volume knob to select " " as for cancel the erase mode. If no further button is press within 5 seconds time out. The unit automatically resume to the previous mode.
- Once the " " is display on the LCD, press the AUDIO button again to final confirm erase the present playback music file.

NOTE If want to CANCEL the erase of the present music file, Rotate the encoder volume knob to " ". Once the " " is displayed on the LCD, press the AUDIO button again to cancel the erase mode.

- After pressing AUDIO button to start the ERASE, the present playing music file will stop and the erasing will start at the same time.
- ERASE ✓ Will display on the LCD after the music file erase is successful, and the unit will automatically start playback the next music file.

2.Erase under Files Number Search Mode

User can select the Music file Number want to erase by file Number Search mode

- After selected the file number want to erase, Long press the BAND button to activate the ERASE mode.
- The LCD will display ERASE 010 .
- Short Press the AUDIO to enter into the ERASE mode
- Once enter into the erase mode. User can rotate the encoder to select " " to confirm the erase or rotate the volume knob to select " " to cancel the ERASE mode. If no further button is press within a 5 second time out. The unit automatically resume to the previous mode.
- Once the " " is displayed on the LCD, press the AUDIO button to final confirm to erase the selected music file.

NOTE If want to CANCEL the erase of the present music file, Rotate the encoder to " ". Once the " " is display on the LCD, press the AUDIO button again to cancel the erase Mode.

- After pressing AUDIO button to start the ERASE, the present playing music file will Stop and the erasing will start at the same time
- ERASE ✓ will display on the LCD after the music file erase is successful, and the Unit automatically start playback of the next music file.

3.Erase under Files NAVIGATE search mode

You can select a Music file want to erase by files Navigate Search mode

- After selected the music file want to erase by files navigate search, Long press BAND button to activate the ERASE mode.
- The LCD will display ERASE 010 .
- Short Press the AUDIO button to enter into the ERASE mode
- Once Enter into the ERASE mode, user can rotate the encoder to select " " as to confirm the erase or rotate the volume knob to select " " to cancel the ERASE mode. If no further button is press within a 5 second time out. The unit will automatically resume to the previous mode.
- Once the " " is displayed on the LCD, press the AUDIO button again to final confirm Erase the selected music file.

NOTE If want to CANCEL the erase of the present music file, Rotate the encoder to " " Once the " " is display on the LCD, press the AUDIO button again to cancel the erase mode.

- After pressing AUDIO button to start the ERASE, the present playing music file will stop and the erasing will start at the same time.
- ERASE Will display on the LCD after the music file erase is successful and the unit will automatically start playback of the next music file.

⚠WARNING:

1) Do not switching mode of the unit during the Erasing
2) Do not turn off the Power of the unit during the Erasing
3) Do not switch the Ignition key off during the Erasing
4) Do not detach the front panel during the Erasing

18. FILES MANAGER

The advance “File Management.” System of this unit can help to well you organize all the music files just like a PC . Pls read below for details:

FOLDERS MANAGEMENT

This unit will automatically self-create the below default folders onto any USB /SD / MMC media device, once these devices are inserted into the unit.

MY_CD : Folder for saving all the music files source from CD Disc
MY_MP3: Folder for saving all the MP3 music files transfer from other device
MY_WMA: Folder for saving all the WMA music files transfer from other device

FILES MANAGEMENT

This unit will automatically self-create the file name following with the Folder Name, for example: Music file which recorded from CD disc, the file name ‘CD0001.MP3' will be automatically created & saved in the respective folder.

19.BLUE TOOTH HAND FREE OPERATION

User Guide For Blue Tooth Operation

1. When user use our Blue tooth HEAD UNIT, please make sure the mobile phone you use must / does support Blue tooth functions (Headset or Handsfree profiles or both)

2. Before you start to use our Bluetooth HEAD UNIT, please make sure complete pairing with your mobile phone first. Please refer to the user manual, section “PAIRING” for detail “PAIRING” instruction. To ensure the best reception for Pairing or Re-connection, please make sure the Phone Battery is fully charged when making the Pairing or Re-connection.

3. Please always try pairing the Mobile Phone with Head unit after a few minutes of the Mobile Phone was Switched On to ensure the best pairing result.

4. “BT60” is this unit device model number which is displayed on the mobile phone.

5. To achieve the best performance, please always keep the Mobile Phone within 3 meters of the Head unit.

6. Please always keep a clear path between the Mobile Phone & the Head unit.

7. Never put any metal object or any obstacle between the path of the Mobile Phone & the Head unit.

8. Some brand of Mobile Phone like Sony Ericsson may have "Power Saving Mode" selection when Blue Tooth mode is switched on. **PLEASE DO NOT** Switches ON Power saving Mode when operating with this Head Unit, as some abnormal communal behavior will happen occasionally if Power Saving Mode is switched on.

9. Before user make Outgoing call or Incoming call, make sure the mobile phone's “Blue Tooth function” was switched “ON”.

10. To ensure the best conversation quality / performance, please always keep talking within 1 meter of the Head Unit.

11. If user want to Dis-connect the Head unit with the Mobile Phone, please switch "OFF" Blue Tooth connectivity on the Mobile Phone,or go to the system menu, "dis-connect" to disconnect the bluetooth connectivity manually. (please refer to the user manual, section "dis-connection of the bluetooth system for details instruction.)

12. Some Mobile Phones can support “IN BAND RING TONE”, such as Nokia. In such case, the Incoming Ringing Tone will be same as the original Ring-tone of the Mobile Phone. But some Mobile Phones like Sony Ericsson do not support this feature. The Ring-tone will be using the standard Ring-tone of the Head unit.

13. When in telephone mode, during talking, it is highly recommended to set the volume to below “30” in order to achieve the best sound quality. As if the volume is too high, it may create unwanted echo inside the car, and this unwanted echo may feedback into the microphone.

14. If the Bluetooth related operation is not performing normally, like cannot make pairing, cannot making an outgoing call, User can try to make a SOFT-RESET of the Bluetooth module by removing / detaching the panel from the main unit and waiting for about 1 min. Then re-attach the panel to the unit & retry the Bluetooth operation again. Or user can RESET the whole unit by pressing the RESET button behind the panel.

NOTE By pressing the RESET button all the stored memory will resume to factory default

Bluetooth Mobile Phone Compatibility List

This unit can support bluetooth specification v1.2 or higher, and compatible with bluetooth profiles such as handsfree or headset profiles. however the functionality may be limited due to some phones' own dedicated interfacing specification.

This list is only updated to the time this list is being printed. This list gives an example of bluetooth mobile phone available on the market, if your bluetooth mobile phone is not on the list, please try it out in practice or try your phone at the local dealer or consult with the local dealer in case it is not mentioned in the list.

1. Sony Ericsson

		Z600 (Advance)	**Z600 (Save mode)**	**T630 (Advance)**	**T630 (Save mode)**	**K700i**	**S700i**
Features							
Caller ID		✓	✓	✓	✓	✓	✓
Pairing	**Pairing**	✓	✓	✓	✓	✓	✓
	Pairing cancel	✓	✓	✓	✓	✓	✓
Ringing	**In-Band Ring Tone**	✗	✗	✗	✗	✗	✗
	Talk	✓	✓	✓	✓	✓	✓
	Reject	✓	✓	✓	✓	✓	✓
Talking	**Audio Transfer**	✓	✓	✓	✓	✓	✓
	Volume up/down	✓	✓	✓	✓	✓	✓
	Hang up	✓	✓	✓	✓	✓	✓
Dialing	**Audio Transfer**	✓	✓	✓	✓	✓	
	Volume up/down	✓	✓	✓	✓	✓	✓
	Redial last call	✓	✗	✓	✗	✓	✓

		Z800i	**W800i**	**W550i (Advance)**	**W550i (Save mode)**	**W810i**	
Features							
Caller ID		✓	✓	✓	✓	✓	
Pairing	**Pairing**	✓	✓	✓	✓	✓	
	Pairing cancel	✓	✓	✓	✓	✓	
Ringing	**In-Band Ring Tone**	✗	✗	✗	✗	✓	
	Talk	✓	✓	✓	✓	✓	
	Reject	✓	✓	✓	✓	✓	
Talking	**Audio Transfer**	✓	✓	✓	✓	✓	
	Volume up/down	✓	✓	✓	✓	✓	
	Hang up	✓	✓	✓	✓	✓	
Dialing	**Audio Transfer**	✓	✓	✓	✓	✓	
	Volume up/down	✓	✓	✓	✓	✓	
	Redial last call	#1	✓	✓	✓	✓	

2. Nokia

		8910	**6600**	**6230**	**N90**	**7600**	**N91**
Features							
Caller ID		✓	✓	✓	✓	✓	✓
Pairing	**Pairing**	✓	✓	✓	✓	✓	✓
	Pairing cancel	✓	✓	✓	✓	✓	✓
Ringing	**In-Band Ring Tone**	✓	✓	✓	✓	✓	✓
	Talk	✓	✓	✓	✓	✓	✓
	Reject	✓	✓	✓	✓	✓	✓
Talking	**Audio Transfer**	✓	✓	✓	✓	✓	✓
	Volume up/down	✓	✓	✓	✓	✓	✓
	Hang up	✓	✓	✓	✓	✓	✓
Dialing	**Audio Transfer**	✓	✓	✓	✓	✓	✓
	Volume up/down	✓	✓	✓	✓	✓	✓
	Redial last call	✓	✓	✓	✓	✓	✓

		6111	**6230i**	**7380**			
Features							
Caller ID		✓	✓	✓			
Pairing	**Pairing**	✓	✓	✓			
	Pairing cancel	✓	✓	✓			
Ringing	**In-Band Ring Tone**	✓	✓	✓			
	Talk	✓	✓	✓			
	Reject	✓	✓	✓			
Talking	**Audio Transfer**	✓	✓	✓			
	Volume up/down	✓	✓	✓			
	Hang up	✓	✓	✓			
Dialing	**Audio Transfer**	✓	✓	✓			
	Volume up/down	✓	✓	✓			
	Redial last call	✓	✓	✓			

3. Motorola

		V600	E398	V501	V3	V80	V3X
Features							
Caller ID		✓	✓	✓	✓	✓	✓
Pairing	Pairing	✓	✓	✓	✓	✓	✓
	Pairing cancel	✓	✓	✓	✓	✓	✓
Ringing	In-Band Ring Tone	✓	✓	✓	✓	✓	✓
	Talk	✓	✓	✓	✓	✓	✓
	Reject	✓	✓	✓	✓	✓	✓
Talking	Audio Transfer	✓	✓	✓	✓	✓	✓
	Volume up/down	✓	✓	✓	✓	✓	✓
	Hang up	✓	✓	✓	✓	✓	✓
Dialing	Audio Transfer	✓	✓	✓	✓	✓	✓
	Volume up/down	✓	✓	✓	✓	✓	✓
	Redial last call	✓	✓	✓	✓	✓	✓

4. Panasonic & Sharp

		Panasonic X88	GX-T15	GX-T71			
Features							
Caller ID		✓	✓	✓			
Pairing	Pairing	✓	✓	✓			
	Pairing cancel	✓	✓	✓			
Ringing	In-Band Ring Tone	✗	✗	✗			
	Talk	✓	✓	✓			
	Reject	✓	✓	✓			
Talking	Audio Transfer	✓	✓	✓			
	Volume up/down	✓	✓	✓			
	Hang up	✓	✓	✓			
Dialing	Audio Transfer	✓	✓	✓			
	Volume up/down	✓	✓	✓			
	Redial last call	✓	✓	✓			

5. Siemens & BenQ

		S55	S88				
Features							
Caller ID		✓	✓				
Pairing	Pairing	✓	✓				
	Pairing cancel	✓	✓				
Ringing	In-Band Ring Tone	✓	✓				
	Talk	✓	✓				
	Reject	✓	✓				
Talking	Audio Transfer	✓	✓				
	Volume up/down	✓	✓				
	Hang up	✓	✓				
Dialing	Audio Transfer	✓	✓				
	Volume up/down	✓	✓				
	Redial last call	✓	✓				

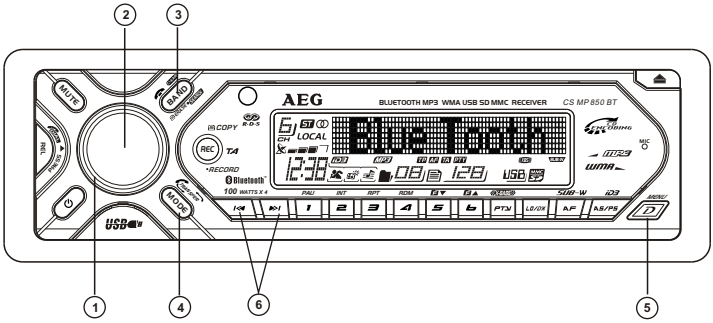
6. Dopod & MIO & Blackberry

		818	565	A700	8700		
Features							
Caller ID		✓	✓	✓	✓		
Pairing	Pairing	✓	✓	✓	✓		
	Pairing cancel	✓	✓	✓	✓		
Ringing	In-Band Ring Tone	✗	✗	✗	✓		
	Talk	✓	✓	✓	✓		
	Reject	✓	✓	✓	✓		
Talking	Audio Transfer	✓	✓	✓	✓		
	Volume up/down	✓	✓	✓	✓		
	Hang up	✓	✓	✓	✓		
Dialing	Audio Transfer	✓	✓	✓	✓		
	Volume up/down	✓	✓	✓	✓		
	Redial last call	✓	✓	✓	✓		

7. Samsung & LG

		D508	D528	KG320			
Features							
Caller ID		✓	✓	✓			
Pairing	Pairing	✓	✓	✓			
	Pairing cancel	✓	✓	✓			
Ringing	In-Band Ring Tone	✗	✗	✓			
	Talk	✓	✓	✓			
	Reject	✓	✓	✓			
Talking	Audio Transfer	✓	✓	✓			
	Volume up/down	✓	✓	✓			
	Hang up	✓	✓	✓			
Dialing	Audio Transfer	✓	✓	✓			
	Volume up/down	✓	✓	✓			
	Redial last call	✗	✗	✓			

Blue Tooth Hand Free Panel Function Key Matrix



Panel Function Button			Blue Tooth Hand Free Function
1	AUDIO	Short Press	Enter Phone number input mode
		Long Press	Confirm Dialing the input Phone Number
2	Encoder volume Knob		Use for numeric input
3	BAND		1. Reject Incoming call 2. Edit Number
4	MODE	Long Press	Transfer Phone Conversation backward to Mobil Phone
5	MENU		Pairing / Re-Connection etc Note: See Menu operation for more details.
6	Tune Up / Down		Move Cursor and Edit Number

PAIRING

Pairing The Blue Tooth System Between User's Mobile Phone & The Unit

- Access into MENU - PAIRING mode to activates the operation of Pairing .

NOTE Pls see MENU Operation for more details of how to access into MENU mode .

- Once the PAIRING:1 is appearing on the LCD Display, press the AUDIO button to activate the Pairing mode.

NOTE Keep the mobile phone within 2 meter from the unit when making the pairing.

- To terminate the pairing, you can press the "CLEAR" button at any time.
- Select the Blue Tooth set up on the Mobile Phone

NOTE Please refer to the instruction manual of your mobile phone on how to enter into the blue tooth set up and blue tooth on / off, and blue tooth pairing.

- "BT60" should appear in the pairing list on the mobile phone. User need to select "BT60" and then input the password **"1234".**
- If the pairing is successful, the display will show PAIRING:1 ✓ and Mobile Phone Name.
- If the pairing failed, " PAIRING:1 ✗ " will be flashing on the Display for 3 seconds. And the unit will switch back to the previous mode automatically.

NOTE During the Pairing, only Power, Clear ,Volume +/- & Mute are functional, other function keys are disabled & non-operational during the pairing mode.

Re-Connection Of The Blue Tooth System

The unit is with built -in Auto-Reconnection function. In some conditions, user need to reconnect manually. For example like the following.

- If The Mobile Phone is out of range.(2 meters away from the Head unit) Under the condition of lost connection when the user come back to the unit. At the same time, there is an incoming call or user is under conversation on the Mobile Phone 2 meters away from the Head Unit and come back to Head unit.
- If user wants Audio Transfer back from Mobile Phone to Head unit. It needs to re-connect manually.

The unit can be re-connected by the following methods.

- Access into MENU - RE-CONN mode to activate the manual RE-Connection.

NOTE Pls see MENU Operation for more details of how to access into MENU mode.

- Once the RE-CONN:1 is display on the LCD , press the AUDIO button to activate the manual Re-Connect mode.

NOTE 1.Keep the mobile phone within 2 Meter from the unit when making the connection.

NOTE 2.The manual re-connect is only function with the Mobile Phone has already been paired with the unit before.

- The LCD Display will displayed " RE-CONN:1 " during the connecting period.
- If the re-connection is successful, the LCD Display will display " RE-CONN:1 ✓ ". And the unit will switch back to the previous mode automatically.
- If the re-connection failed, the LCD Display will display " RE-CONN:1 ✗ " . And the unit will switch back to the previous mode automatically.

The unit will be Auto Re-Connection by following operation .

- Every time turn the ignition key from off to on ,the unit will Auto re-connect with the mobile phone one.
- Every time when user long press AUDIO button or short press MODE button confirm dialing a call, the Unit will Auto Re-connect with the Mobile Phone once (Only if this Mobile Phone has been paired with the unit previously).

Dis-Connection of the Blue Tooth System

The unit have a option function for user to disconnect the Blue tooth system with the unit.
The unit can be Dis-connected by the following methods.

- Access into MENU - DIS-CONN mode to activate the manual Dis-Connection.

NOTE Pls see MENU Operation for more details of how to access into MENU mode.

- Once the " DIS-CONN:1 " is display on the LCD, press the AUDIO button to activate the manual Dis-Connect mode.
- The LCD Display will displayed " DIS-CONN:1 " during the Dis-connecting period.
- If the Dis-Connection is successful, the LCD Display will display " DIS-CONN:1 ". And the unit will switch back to the previous mode automatically.

INCOMING CALL

ANSWERING AN INCOMING CALL

- When there is an incoming call, the LCD Display will dis play "Caller ID" and keep blinking. If the incoming call has no caller ID, the LCD will display " PHONE IN " User can press the "PHONE" button or "MODE" button to answer / accept the call.

NOTE Always press the **"PHONE"** (AUIDIO)button or **"MODE '** button to answer / accept the call **after** the LCD display the "Caller ID" or "PHONE IN".

NOTE The audio output of the present mode will be muted and the ringing tones will be heard, if an incoming call is not being answered.

- User can use the volume up/down to adjust the volume level.
- To end the conversation, press the "CLEAR" button. The unit will switch back to the previous mode automatically and release the mute of the previous mode at the same time.

NOTE An incoming call under stand by mode (Ignition on & Power Off) The system will automatically switch on the head unit.

NOTE While there is an Incoming call or under talking mode, the Panel Open/Eject key is dis-activated.

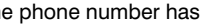
Rejecting An Incoming Call

- User can press "CLEAR" button to reject the incoming call.

NOTE The audio output of the present mode will be muted and the ringing tones will be heard if an incoming call is not being answered. After pressing the "CLEAR"(BAND) button, the mute of the present mode will be released.

OUTGOING CALL

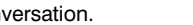
Making An Outgoing Call

- Press the “PHONE” (AUDIO)button to start making an outgoing call. The LCD Display will display And a cursor will keep blinking while waiting the user to enter the phone number.
- Rotate the encoder knob to navigate thru the numeric 0-9 *, # & + .
- Press the” AUDIO” button as confirm input the selected numeric.
- Use the Track up/down button to move the cursor back or forward to the wrong input numeric.
- Once the phone number has been entered completely, Long press the“PHONE” button again or Short Press the “MODE” button to start dialing the call, the LCD Display will display “  ”.

Tips Under the Calling mode, if need to input any number, for example Pin Code Input or Service Number Dial Input. Short press the **“AUDIO”** button to enter the numeric input interface then rotate the encoder knob to navigate the desire input number and press the **“AUDIO”** button again as confirm input the selected number. To exit the numeric input interface by **LONG PRESS** the **“AUDIO”** button again.

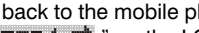
NOTE The audio output of the present mode will ONLY be muted after pressing the “PHONE” button as a confirmation to dial the outgoing call.

NOTE While there is an outgoing call or under talking mode, the Panel Open/Eject key is dis-activated.

- During the talking mode, the LCD Display will display the duration “  ”of the conversation.
- User can use the volume up/down to adjust the volume level.
- To end the conversation, press the “Clear” button . The unit will switch back to the previous mode automatically. The mute of the previous mode will be released at the same time.
- During the talking mode, if the Ignition is being turned off, the unit will keep the conversation even if the Ignition is Switched off. After finished the conversation, User can press “CLEAR” button to switch off the unit.

CALL TRANSFER

TO AUDIO TRANSFER FROM HEAD UNIT BACK TO THE MOBILE PHONE

- During the talking mode, user can press the “TRANSFER” button to transfer the audio from the unit back to the mobile phone for privacy reason. The LCD Display will display “  ” on the LCD for 3 seconds.

NOTE After the “Transfer” button is pressed, the mute of the present mode will be released at the same time.

NOTE When making an outgoing call, it's not possible to CALL TRANSFER if the call is not being answered yet.. It's only possible to Transfer the call to Mobile phone after the call is being answered.

NOTE Depending on different type of Mobile Phone, the time need for activating the CALL TRANSFER mode is different. Like Nokia Mobile Phone usually takes 3-5 seconds after pressed the "TRANSFER” button for audio transfer back or forth through Unit to mobile phone.

DIALED LIST

To Find the Last 10 Dialed Number

The unit can memory up to 10 last dialed number.

- Press the “PHONE” (AUDIO) button, after the LCD appeared display “ ”, then Long press “PHONE” (AUDIO) button.
- The last dialed number as the first number on the list will display on the LC D. Rotate the encoder knob to navigate through the 10 last dialed number.
- User can Long press the “PHONE” (AUDIO) button or Short press “MODE” button to confirm dialing the selected Dialed Number from the list.
- User also can be edit the number in the dialed list. Once the desired edit dialed list appearing on the display, user can short press **“PHONE”** (AUDIO) button to enter the number edit mode. Use the Track up/down button to move the cursor back or forward to the input numeric which want to edit.

NOTE The unit only memorize the dialed numbers which dialed from the unit, it cannot memorize the number dialing from the mobile phone.

HIGHLIGHT FEATURES

- Incoming call ringing volume

  Preset the Ringing volume level for any incoming call.

NOTE Pls see “MENU”- “PHONE VOL” for details operation.

- Auto Answer

  Auto Answer any incoming call.

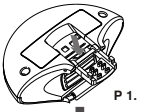
NOTE Pls see “MENU”- “A ANSWER” for details operation.

20. STEERING WHEEL REMOTE CONTROL

1. Replacing Battery

In order to ensure proper functioning of the steering wheel remote control. Please make sure only use 2 x AAA type battery.

If the device to be controlled no longer responds to any key press even under favourable circumstances or the device to be controlled indicates a weak battery, please replace the battery of the remote control.



P 1.

P 2.

➡ Remove the remote control from the steering wheel as show in P1 & P2.

➡ Push the battery compartment lid on the back of the remote control in direction of the gap and open the battery compartment.

➡ Remove the dry battery, and replace with 2 new AAA battery.

2. Mounting the Steering Wheel Remote Control

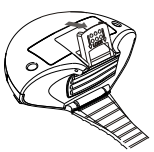
Step 1. Open the locking cover on the rear side of the remote control.

Step 2. Hold the remote control inside the steering wheel and guide the strap thru & under the locking cover.

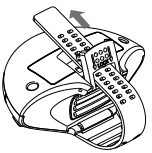
Step 3. ⓐ Tighten the strap slightly and then press it with the perforation firmly into the matching catches on the locking cover.ⓑ Press Down the locking cover.

Step 4. Close the locking cover ⓐ and then push it in the direction of the lock ⓑ position.

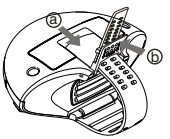
Step 5. Release the locking cover. Now the lever should engage firmly through the tension of the strap. If the locking cover should not engage, or the remote control should not fit firmly enough on the steering wheel, please repeat steps 3-



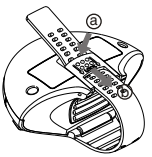
Step.1



Step. 2



Step. 3



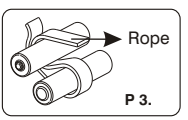
Step. 4

In order to improve adhesion in the case of steering wheels with large internal diameter, use a foam rubber pad and bond it to the base compartment lid of the remote control before installation.

Base Compartment

Battery Insert Guide

When you insert the battery , remember always put the rope wrap around the battery as show in P.3 . This can help to remove the batteries easily in the future.



Rope

P 3.

3. Key functions

Key	Function
1. MUTE	Press this button to mute the audio volume
2. MODE	Press this button to select different mode of the main unit.
3. EJECT	Press this button to stop the CD playback and eject the CD. In some models press this button to activate the motorization up or down of the front panel.
4. ▶II	Press this button to pause disc playback. Press this button again to resume disc Playback.
5. BAND	Press this button to change the radio band.
6. DISP/MENU	Short press this button to change the display mode. Long press this button to enter into the system Menu
7. AUDIO (A)	Short press this button to enter into the Audio menu. For RDS models, long press this button to enter into the RDS Menu.
8. +	Press this button to increase the volume
9. −	Press this button to decrease the volume
10. ◀◀	Short press for tuner seek down or CD track down.
11. ▶▶	Short press is tuner seek up or CD track up.

21.SPECIFICATIONS

CD PLAYER

System	Compact disc audio system
Usable disc	Compact disc
Sampling frequency	44.1KHz
No of quantization bits	1bit
Frequency	5-20,000Hz
Number of channels	2 stereo
S/N Ratio	70dB

MEDIA SECTION

USB Host Host 1.1 compatibles 2.0

Memory Card

Support Type of Memory Card SD and MMC

RADIO SECTION

FM

Frequency Range	87.5-108 Mhz
Intermediate Frequency	10.7 MHz
Usable Sensitivity	Better than 15dB at S/N 30 dB
Stereo Separation	25 dB at 1KHz
S/N Ratio	50 dB

GENERAL

Power Supply	DC 11 -14V
Polarity	Negative Ground
Speaker impedance	4 ohms
Power Output	4 x 100W

REMARK :

Specifications subject to change without notice.

22.TROUBLE SHOOTING

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power	The car ignition is not on.	If the power supply is properly connected to the car accessory terminal, switch the ignition key to
	The fuse is blown.	Replace the fuse.
Disc cannot be loaded or ejected	Presence of CD disc inside the player.	Remove the disc in the player, then put a new one.
	Inserting the disc in reverse direction.	Insert the compact disc with the label facing upward.
	Compact disc is extremely dirty or defective disc.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature returns to normal.
	Condensation.	Leave the player to off for an hour or so, then try again.
No sound	Volume is in minimum.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise.	Press the RESET button. Front panel is not properly fixed into its place
Sound skips.	The installation angle is more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirty or a defective disc.	Clean the compact disc or try to play a new one.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.
ERROR 1	Mechanism Error	Press the reset button to correct the problem. If the error code does not disappear, consult your nearest service dealer.
Write Error	The Media Device not able to copy or record by the unit.	Replace the Media Device or Format the Flash Memory
Read Error	The Media Device not able to play file by the unit	Replace the Media Device or Format the Flash Memory
Memory Full	The media device memory is full not allow to copy	Replace the Media device or erase some un-usage files.
No File	No file Format supports for Playback on the disc or Media Device	Replace the disc or Media Device..
Disc Error	Maybe disc dirty / disc scratched /disc upside down.	Replace the disc.

If at any time in the future you should need to dispose of this product please note that Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.(Waste Electrical and Electronic Equipment Directive)